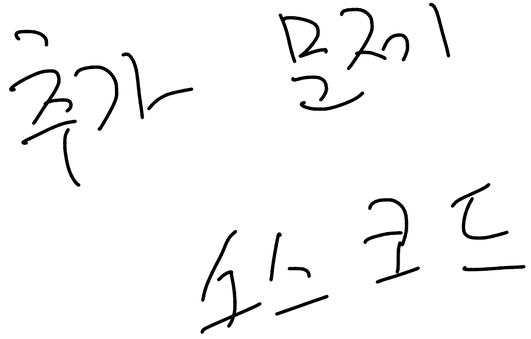


최백준 choi@startlink.io

C++14

```cpp
#include <iostream>
using namespace std;
char a[33][33];
int dx[4] = {0,0,1,-1};
int dy[4] = {1,-1,0,0};
int n, m;
bool ok(int x, int y) {
    return 0 <= x && x < n && 0 <= y && y < m;
}
int go(int x, int y, int cnt) {
    int ans = -1;
    if (cnt == 0) {
        return 0;
    }
    for (int k=0; k<4; k++) {
        int nx = x+dx[k];
        int ny = y+dy[k];
        while (ok(nx, ny) && a[nx][ny] == '.') {
            a[nx][ny] = '#';
            cnt -= 1;
            nx += dx[k];
            ny += dy[k];
        }
        nx -= dx[k];
        ny -= dy[k];
        if (!(x == nx && y == ny)) {
            int temp = go(nx, ny, cnt);
            if (temp != -1) {
                if (ans == -1 || ans > temp+1) {
                    ans = temp+1;
                }
            }
        }
        while (!(x == nx && y == ny)) {
            a[nx][ny] = '.';
            cnt += 1;
            nx -= dx[k];
            ny -= dy[k];
        }
    }
    return ans;
}
int main() {
    int tc = 1;
    while (cin >> n >> m) {
        int cnt = 0;
        for (int i=0; i<n; i++) {
            cin >> a[i];
            for (int j=0; j<m; j++) {
                if (a[i][j] == '.') {
                    cnt += 1;
                }
            }
        }
        int ans = -1;
        for (int i=0; i<n; i++) {
            for (int j=0; j<m; j++) {
                if (a[i][j] == '.') {
                    a[i][j] = '#';
                    int temp = go(i, j, cnt-1);
                    if (temp != -1) {
                        if (ans == -1 || ans > temp) {
                            ans = temp;
                        }
                    }
                    a[i][j] = '.';
                }
            }
        }
        cout << "Case " << tc << ": " << ans << '\n';
        tc += 1;
    }
    return 0;
}

```

결과	메모리	시간	코드 길이
맞았습니다!!	1988 KB	120 ms	1896 B

Java

```java
import java.util.*;
public class Main {
    static char[][] a;
    static final int[] dx = {0,0,1,-1};
    static final int[] dy = {1,-1,0,0};
    static int n, m;
    static boolean ok(int x, int y) {
        return 0 <= x && x < n && 0 <= y && y < m;
    }
    static int go(int x, int y, int cnt) {
        int ans = -1;
        if (cnt == 0) {
            return 0;
        }
        for (int k=0; k<4; k++) {
            int nx = x+dx[k];
            int ny = y+dy[k];
            while (ok(nx, ny) && a[nx][ny] == '.') {
                a[nx][ny] = '#';
                cnt -= 1;
                nx += dx[k];
                ny += dy[k];
            }
            nx -= dx[k];
            ny -= dy[k];
            if (!(x == nx && y == ny)) {
                int temp = go(nx, ny, cnt);
                if (temp != -1) {
                    if (ans == -1 || ans > temp+1) {
                        ans = temp+1;
                    }
                }
            }
            while (!(x == nx && y == ny)) {
                a[nx][ny] = '.';
                cnt += 1;
                nx -= dx[k];
                ny -= dy[k];
            }
        }
        return ans;
    }
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        int tc = 1;
        while (sc.hasNextInt()) {
            n = sc.nextInt();
            m = sc.nextInt();
            a = new char[n][m];
            int cnt = 0;
            for (int i=0; i<n; i++) {
                a[i] = sc.next().toCharArray();
                for (int j=0; j<m; j++) {
                    if (a[i][j] == '.') {
                        cnt += 1;
                    }
                }
            }
            int ans = -1;
            for (int i=0; i<n; i++) {
                for (int j=0; j<m; j++) {
                    if (a[i][j] == '.') {
                        a[i][j] = '#';
                        int temp = go(i, j, cnt-1);
                        if (temp != -1) {
                            if (ans == -1 || ans > temp) {
                                ans = temp;
                            }
                        }
                        a[i][j] = '.';
                    }
                }
            }
            System.out.printf("Case %d: %d\n", tc, ans);
            tc += 1;
        }
    }
}

```

결과	메모리	시간	코드 길이
맞았습니다!!	15404 KB	384 ms	2409 B

C++14

```cpp
#include <iostream>
using namespace std;
int bottom[40001];
bool hole[40001];
int top[40001];
int main() {
    for (int i=0; i<=40000; i++) {
        bottom[i] = -1;
        hole[i] = false;
    }
    int n;
    cin >> n;
    n -= 2;
    n /= 2;
    int x, y;
    cin >> x >> y;
    for (int i=0; i<n; i++) {
        int x1, y1, x2, y2;
        cin >> x1 >> y1 >> x2 >> y2;
        for (int j=x1+1; j<=x2; j++) {
            if (bottom[j] == -1 || bottom[j] < y1) {
                bottom[j] = y1;
            }
        }
    }
    cin >> x >> y;
    int m;
    cin >> m;
    while (m--) {
        int x1, y1, x2, y2;
        cin >> x1 >> y1 >> x2 >> y2;
        for (int i=x1+1; i<=x2; i++) {
            hole[i] = true;
        }
    }
    for (int i=1; i<=40000; i++) {
        if (bottom[i] == -1) continue;
        if (hole[i] == false) continue;
        int surface = bottom[i];
        for (int j=i; j>=1; j--) {
            if (bottom[j] == -1) break;
            surface = min(surface, bottom[j]);
            top[j] = max(top[j], surface);
        }
        surface = bottom[i];
        for (int j=i+1; j<=40000; j++) {
            if (bottom[j] == -1) break;
            surface = min(surface, bottom[j]);
            top[j] = max(top[j], surface);
        }
    }
    long long ans = 0;
    for (int i=1; i<=40000; i++) {
        if (bottom[i] == -1) continue;
        if (bottom[i] > top[i]) {
            ans += bottom[i] - top[i];
        }
    }
    cout << ans << '\n';
    return 0;
}

```

결과	메모리	시간	코드 길이
맞았습니다!!	2340 KB	1736 ms	1564 B

Java

```java
import java.util.*;
public class Main {
    static int[] bottom = new int[40001];
    static boolean[] hole = new boolean[40001];
    static int[] top = new int[40001];
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        Arrays.fill(bottom, -1);
        Arrays.fill(hole, false);
        int n = sc.nextInt();
        n -= 2;
        n /= 2;
        sc.nextInt(); sc.nextInt();
        for (int i=0; i<n; i++) {
            int x1 = sc.nextInt();
            int y1 = sc.nextInt();
            int x2 = sc.nextInt();
            int y2 = sc.nextInt();
            for (int j=x1+1; j<=x2; j++) {
                if (bottom[j] == -1 || bottom[j] < y1) {
                    bottom[j] = y1;
                }
            }
        }
        sc.nextInt(); sc.nextInt();
        int m = sc.nextInt();
        while (m-- > 0) {
            int x1 = sc.nextInt();
            int y1 = sc.nextInt();
            int x2 = sc.nextInt();
            int y2 = sc.nextInt();
            for (int i=x1+1; i<=x2; i++) {
                hole[i] = true;
            }
        }
        for (int i=1; i<=40000; i++) {
            if (bottom[i] == -1) continue;
            if (hole[i] == false) continue;
            int surface = bottom[i];
            for (int j=i; j>=1; j--) {
                if (bottom[j] == -1) break;
                surface = Math.min(surface, bottom[j]);
                top[j] = Math.max(top[j], surface);
            }
            surface = bottom[i];
            for (int j=i+1; j<=40000; j++) {
                if (bottom[j] == -1) break;
                surface = Math.min(surface, bottom[j]);
                top[j] = Math.max(top[j], surface);
            }
        }
        long ans = 0;
        for (int i=1; i<=40000; i++) {
            if (bottom[i] == -1) continue;
            if (bottom[i] > top[i]) {
                ans += bottom[i] - top[i];
            }
        }
        System.out.println(ans);
    }
}

```

결과	메모리	시간	코드 길이
맞았습니다!!	32968 KB	2200 ms	2040 B

C++14

```cpp
#include <iostream>
#include <map>
#include <vector>
using namespace std;
int main() {
    int n;
    cin >> n;
    n -= 2;
    n /= 2;
    vector<int> bottom(n, -1);
    vector<bool> hole(n, false);
    vector<int> top(n, 0);
    vector<int> width(n, 0);
    map<int,int> dict;
    int x, y;
    cin >> x >> y;
    for (int i=0; i<n; i++) {
        int x1, y1, x2, y2;
        cin >> x1 >> y1 >> x2 >> y2;
        bottom[i] = y1;
        width[i] = (x2-x1);
        dict[x2] = i;
    }
    cin >> x >> y;
    int m;
    cin >> m;
    for (int i=0; i<n; i++) {
        int x1, y1, x2, y2;
        cin >> x1 >> y1 >> x2 >> y2;
        int index = dict[x2];
        hole[index] = true;
    }
    for (int i=0; i<n; i++) {
        if (hole[i] == false) continue;
        int surface = bottom[i];
        for (int j=i; j>=0; j--) {
            surface = min(surface, bottom[j]);
            top[j] = max(top[j], surface);
        }
        surface = bottom[i];
        for (int j=i+1; j<n; j++) {
            surface = min(surface, bottom[j]);
            top[j] = max(top[j], surface);
        }
    }
    long long ans = 0;
    for (int i=0; i<n; i++) {
        if (bottom[i] > top[i]) {
            ans += (long long)(bottom[i] - top[i]) * width[i];
        }
    }
    cout << ans << '\n';
    return 0;
}

```

결과	메모리	시간	코드 길이
맞았습니다!!	2124 KB	16 ms	1360 B

Java

```java
import java.util.*;
public class Main {
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        int n = sc.nextInt();
        n -= 2;
        n /= 2;
        int[] bottom = new int[n];
        Arrays.fill(bottom,-1);
        boolean[] hole = new boolean[n];
        int[] top = new int[n];
        int[] width = new int[n];
        HashMap<Integer,Integer> dict = new HashMap<>();
        sc.nextInt(); sc.nextInt();
        for (int i=0; i<n; i++) {
            int x1 = sc.nextInt();
            int y1 = sc.nextInt();
            int x2 = sc.nextInt();
            int y2 = sc.nextInt();
            bottom[i] = y1;
            width[i] = (x2-x1);
            dict.put(x2,i);
        }
        sc.nextInt(); sc.nextInt();
        int m = sc.nextInt();
        for (int i=0; i<m; i++) {
            int x1 = sc.nextInt();
            int y1 = sc.nextInt();
            int x2 = sc.nextInt();
            int y2 = sc.nextInt();
            int index = dict.get(x2);
            hole[index] = true;
        }
        for (int i=0; i<n; i++) {
            if (hole[i] == false) continue;
            int surface = bottom[i];
            for (int j=i; j>=0; j--) {
                surface = Math.min(surface, bottom[j]);
                top[j] = Math.max(top[j], surface);
            }
            surface = bottom[i];
            for (int j=i+1; j<n; j++) {
                surface = Math.min(surface, bottom[j]);
                top[j] = Math.max(top[j], surface);
            }
        }
        long ans = 0;
        for (int i=0; i<n; i++) {
            if (bottom[i] > top[i]) {
                ans += (long)(bottom[i] - top[i]) * width[i];
            }
        }
        System.out.println(ans);
    }
}

```

결과	메모리	시간	코드 길이
맞았습니다!!	31884 KB	468 ms	1808 B

C++14

```cpp
#include <iostream>
#include <cstring>
#include <tuple>
using namespace std;
int a[10][10];
bool c[10][10];
bool c2[10][10];
bool c3[10][10];
bool domino[10][10];
int n=9;
int dx[] = {0, 1};
int dy[] = {1, 0};
pair<int,int> convert(string s) {
    return make_pair(s[0]-'A',s[1]-'1');
}
int square(int x, int y) {
    return (x/3)*3+(y/3);
}
bool can(int x, int y, int num) {
    return c[x][num] == false && c2[y][num] == false && c3[square(x,y)][num] == false;
}
void check(int x, int y, int num, bool what) {
    c[x][num] = what;
    c2[y][num] = what;
    c3[square(x,y)][num] = what;
}
bool check_range(int x, int y) {
    return 0 <= x && x < n && 0 <= y && y < n;
}
bool go(int z) {
    if (z == 81) {
        for (int i=0; i<n; i++) {
            for (int j=0; j<n; j++) {
                cout << a[i][j];
            }
            cout << '\n';
        }
        return true;
    }
    int x = z/n;
    int y = z%n;
    if (a[x][y] != 0) {
        return go(z+1);
    } else {
        for (int k=0; k<2; k++) {
            int nx = x+dx[k];
            int ny = y+dy[k];
            if (!check_range(nx,ny)) {
                continue;
            }
            if (a[nx][ny] != 0) continue;
            for (int i=1; i<=n; i++) {
                for (int j=1; j<=n; j++) {
                    if (i == j) continue;
                    if (domino[i][j]) continue;
                    if (can(x,i) && can(nx,j)) {
                        check(x,i,true);
                        check(nx,j,true);
                        domino[i][j] = domino[j][i] = true;
                        a[x][y] = i;
                        a[nx][ny] = j;
                        if (go(z+1)) {
                            return true;
                        }
                        check(x,i,false);
                        check(nx,j,false);
                        domino[i][j] = domino[j][i] = false;
                        a[x][y] = 0;
                        a[nx][ny] = 0;
                    }
                }
            }
        }
    }
    return false;
}
int main() {
    int tc=1;
    while (true) {
        memset(c,false,sizeof(c));
        memset(c2,false,sizeof(c2));
        memset(c3,false,sizeof(c3));
        memset(domino,false,sizeof(domino));
        memset(a,0,sizeof(a));
        int m;
        cin >> m;
        if (m == 0) break;
        for (int i=0; i<m; i++) {
            int n1, n2;
            string s1, s2;
            cin >> n1 >> s1 >> n2 >> s2;
            int x1,y1,x2,y2;
            tie(x1,y1) = convert(s1);
            tie(x2,y2) = convert(s2);
            a[x1][y1] = n1;
            a[x2][y2] = n2;
            domino[n1][n2] = domino[n2][n1] = true;
            check(x1,y1,n1,true);
            check(x2,y2,n2,true);
        }
        for (int i=1; i<=9; i++) {
            string s;
            cin >> s;
            int x,y;
            tie(x,y) = convert(s);
            a[x][y] = i;
            check(x,y,i,true);
        }
        cout << "Puzzle " << tc << '\n';
        go(0);
        tc += 1;
    }
    return 0;
}
```

결과	메모리	시간	코드 길이
맞았습니다!!	1992 KB	4 ms	3193 B

Java

```java
import java.util.*;
public class Main {
    static int[][] a = new int[10][10];
    static boolean[][] c = new boolean[10][10];
    static boolean[][] c2 = new boolean[10][10];
    static boolean[][] c3 = new boolean[10][10];
    static boolean[][] domino = new boolean[10][10];
    static final int n = 9;
    static final int[] dx = {0, 1};
    static final int[] dy = {1, 0};
    static int square(int x, int y) {
        return (x/3)*3+(y/3);
    }
    static boolean can(int x, int y, int num) {
        return c[x][num] == false && c2[y][num] == false && c3[square(x,y)][num] == false;
    }
    static void check(int x, int y, int num, boolean what) {
        c[x][num] = what;
        c2[y][num] = what;
        c3[square(x,y)][num] = what;
    }
    static boolean check_range(int x, int y) {
        return 0 <= x && x < n && 0 <= y && y < n;
    }
    static boolean go(int z) {
        if (z == 81) {
            for (int i=0; i<n; i++) {
                for (int j=0; j<n; j++) {
                    System.out.print(a[i][j]);
                }
                System.out.println();
            }
            return true;
        }
        int x = z/n;
        int y = z%n;
        if (a[x][y] != 0) {
            return go(z+1);
        } else {
            for (int k=0; k<2; k++) {
                int nx = x+dx[k];
                int ny = y+dy[k];
                if (!check_range(nx,ny)) {
                    continue;
                }
                if (a[nx][ny] != 0) continue;
                for (int i=1; i<=9; i++) {
                    for (int j=1; j<=9; j++) {
                        if (i == j) continue;
                        if (domino[i][j]) continue;
                        if (can(x,y,i) && can(nx,ny,j)) {
                            check(x,y,i,true);
                            check(nx,ny,j,true);
                            domino[i][j] = domino[j][i] = true;
                            a[x][y] = i;
                            a[nx][ny] = j;
                            if (go(z+1)) {
                                return true;
                            }
                            check(x,y,i,false);
                            check(nx,ny,j,false);
                            domino[i][j] = domino[j][i] = false;
                            a[x][y] = 0;
                            a[nx][ny] = 0;
                        }
                    }
                }
            }
        }
        return false;
    }
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        int tc=1;
        while (true) {
            for (int i=0; i<10; i++) {
                Arrays.fill(c[i], false);
                Arrays.fill(c2[i], false);
                Arrays.fill(c3[i], false);
                Arrays.fill(domino[i], false);
                Arrays.fill(a[i], 0);
            }
            int m = sc.nextInt();
            if (m == 0) break;
            for (int i=0; i<m; i++) {
                int n1 = sc.nextInt();
                String s1 = sc.next();
                int n2 = sc.nextInt();
                String s2 = sc.next();
                int x1 = s1.charAt(0) - 'A';
                int y1 = s1.charAt(1) - '1';
                int x2 = s2.charAt(0) - 'A';
                int y2 = s2.charAt(1) - '1';
                a[x1][y1] = n1;
                a[x2][y2] = n2;
                domino[n1][n2] = domino[n2][n1] = true;
                check(x1,y1,n1,true);
                check(x2,y2,n2,true);
            }
            for (int i=1; i<=9; i++) {
                String s = sc.next();
                int x = s.charAt(0) - 'A';
                int y = s.charAt(1) - '1';
                a[x][y] = i;
                check(x,y,i,true);
            }
            System.out.println("Puzzle " + tc);
            go(0);
            tc += 1;
        }
    }
}
```

결과	메모리	시간	코드 길이
맞았습니다!!	14416 KB	168 ms	3981 B

C++14

```cpp
#include <iostream>
#include <algorithm>
using namespace std;
int n;
int a[500][500];
int d[500][500];
int dx[] = {0,0,1,-1};
int dy[] = {1,-1,0,0};
int go(int i, int j) {
    if (i < 0 || j < 0 || i >= n || j >= n) {
        return 0;
    }
    if (d[i][j] != 0) {
        return d[i][j];
    }
    d[i][j] = 1;
    for (int k=0; k<4; k++) {
        int x = i+dx[k];
        int y = j+dy[k];
        if (a[i][j] < a[x][y]) {
            d[i][j] = max(d[i][j], go(x, y) + 1);
        }
    }
    return d[i][j];
}

int main() {
    cin >> n;
    for (int i=0; i<n; i++) {
        for (int j=0; j<n; j++) {
            cin >> a[i][j];
        }
    }
    int ans = 0;
    for (int i=0; i<n; i++) {
        for (int j=0; j<n; j++) {
            ans = max(ans, go(i, j));
        }
    }
    cout << ans << '\n';
    return 0;
}

```

결과	메모리	시간	코드 길이
맞았습니다!!	19440 KB	104 ms	868 B

Java

```java
import java.util.*;
public class Main {
    static int n;
    static int[][] a = new int[500][500];
    static int[][] d = new int[500][500];
    static int[] dx = {0,0,1,-1};
    static int[] dy = {1,-1,0,0};
    static int go(int i, int j) {
        if (d[i][j] != 0) {
            return d[i][j];
        }
        d[i][j] = 1;
        for (int k=0; k<4; k++) {
            int x = i+dx[k];
            int y = j+dy[k];
            if (x < 0 || x >= n || y < 0 || y >= n) continue;
            if (a[i][j] < a[x][y]) {
                d[i][j] = Math.max(d[i][j], go(x, y) + 1);
            }
        }
        return d[i][j];
    }
    public static void main(String args[]) {
        Scanner sc = new Scanner(System.in);
        n = sc.nextInt();
        for (int i=0; i<n; i++) {
            for (int j=0; j<n; j++) {
                a[i][j] = sc.nextInt();
            }
        }
        int ans = 0;
        for (int i=0; i<n; i++) {
            for (int j=0; j<n; j++) {
                ans = Math.max(ans, go(i, j));
            }
        }
        System.out.println(ans);
    }
}

```

결과	메모리	시간	코드 길이
맞았습니다!!	106028 KB	1444 ms	1131 B

C++14

```cpp
#include <iostream>
#include <algorithm>
using namespace std;
struct Element {
    int row, col, val;
};
bool cmp(const Element &u, const Element &v) {
    return u.val > v.val;
}
int a[500][500];
Element b[500*500];
int d[500][500];
int dx[] = {0,0,1,-1};
int dy[] = {1,-1,0,0};
int main() {
    int n;
    cin >> n;
    for (int i=0; i<n; i++) {
        for (int j=0; j<n; j++) {
            cin >> a[i][j];
            b[i*n+j].row = i;
            b[i*n+j].col = j;
            b[i*n+j].val = a[i][j];
        }
    }
    sort(b,b+n*n,cmp);
    for (int i=0; i<n*n; i++) {
        int x = b[i].row;
        int y = b[i].col;
        d[x][y] = 1;
        // (x, y) -> (nx, ny)
        for (int k=0; k<4; k++) {
            int nx = x+dx[k];
            int ny = y+dy[k];
            if (nx < 0 || nx >= n || ny < 0 || ny >= n) continue;
            if (a[x][y] < a[nx][ny]) {
                d[x][y] = max(d[x][y],d[nx][ny]+1);
            }
        }
    }
    int ans = 0;
    for (int i=0; i<n; i++) {
        for (int j=0; j<n; j++) {
            if (ans < d[i][j]) {
                ans = d[i][j];
            }
        }
    }
    cout << ans << '\n';
    return 0;
}
```

결과	메모리	시간	코드 길이
맞았습니다!!	6872 KB	120 ms	1226 B

Java

```java
import java.util.*;
class Element implements Comparable<Element> {
    int row, col, val;
    Element(int row, int col, int val) {
        this.row = row;
        this.col = col;
        this.val = val;
    }
    public int compareTo(Element that) {
        if (this.val > that.val) return -1;
        else if (this.val < that.val) return 1;
        else return 0;
    }
}
public class Main {
    static int[] dx = {0,0,1,-1};
    static int[] dy = {1,-1,0,0};
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        int n = sc.nextInt();
        int[][] a = new int[n][n];
        Element[] b = new Element[n*n];
        for (int i=0; i<n; i++) {
            for (int j=0; j<n; j++) {
                a[i][j] = sc.nextInt();
                b[i*n+j] = new Element(i,j,a[i][j]);
            }
        }
        Arrays.sort(b,0,n*n);
        int[][] d = new int[n][n];
        for (int i=0; i<n*n; i++) {
            int x = b[i].row;
            int y = b[i].col;
            d[x][y] = 1;
            // (x, y) -> (nx, ny)
            for (int k=0; k<4; k++) {
                int nx = x+dx[k];
                int ny = y+dy[k];
                if (nx < 0 || nx >= n || ny < 0 || ny >= n) continue;
                if (a[x][y] < a[nx][ny]) {
                    d[x][y] = Math.max(d[x][y],d[nx][ny]+1);
                }
            }
        }
        int ans = 0;
        for (int i=0; i<n; i++) {
            for (int j=0; j<n; j++) {
                if (ans < d[i][j]) {
                    ans = d[i][j];
                }
            }
        }
        System.out.println(ans);
    }
}
```

결과	메모리	시간	코드 길이
맞았습니다!!	96544 KB	1828 ms	1688 B

C++14

```cpp
#include <iostream>
#include <vector>
#include <algorithm>
using namespace std;
int check(vector<string> &a) {
    int n = a.size();
    int ans = 1;
    for (int i=0; i<n; i++) {
        int cnt = 1;
        for (int j=1; j<n; j++) {
            if (a[i][j] == a[i][j-1]) {
                cnt += 1;
            } else {
                cnt = 1;
            }
            if (ans < cnt) ans = cnt;
        }
        cnt = 1;
        for (int j=1; j<n; j++) {
            if (a[j][i] == a[j-1][i]) {
                cnt += 1;
            } else {
                cnt = 1;
            }
            if (ans < cnt) ans = cnt;
        }
    }
    return ans;
}
int main() {
    int n;
    cin >> n;
    vector<string> a(n);
    for (int i=0; i<n; i++) {
        cin >> a[i];
    }
    int ans = 0;
    for (int i=0; i<n; i++) {
        for (int j=0; j<n; j++) {
            if (j+1 < n) {
                swap(a[i][j], a[i][j+1]);
                int temp = check(a);
                if (ans < temp) ans = temp;
                swap(a[i][j], a[i][j+1]);
            }
            if (i+1 < n) {
                swap(a[i][j], a[i+1][j]);
                int temp = check(a);
                if (ans < temp) ans = temp;
                swap(a[i][j], a[i+1][j]);
            }
        }
    }
    cout << ans << '\n';
    return 0;
}
```

결과	메모리	시간	코드 길이
맞았습니다!!	1988 KB	24 ms	1384 B

Java

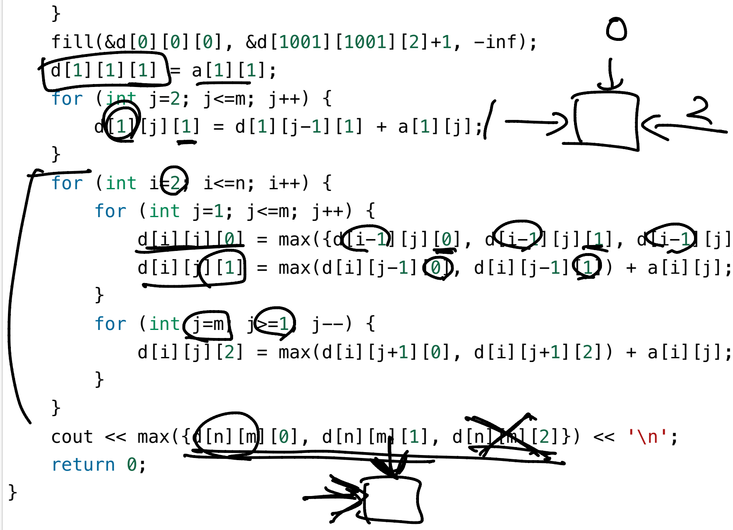
```java
import java.util.*;
public class Main {
    static int check(char[][] a) {
        int n = a.length;
        int ans = 1;
        for (int i=0; i<n; i++) {
            int cnt = 1;
            for (int j=1; j<n; j++) {
                if (a[i][j] == a[i][j-1]) {
                    cnt += 1;
                } else {
                    cnt = 1;
                }
                if (ans < cnt) ans = cnt;
            }
            cnt = 1;
            for (int j=1; j<n; j++) {
                if (a[j][i] == a[j-1][i]) {
                    cnt += 1;
                } else {
                    cnt = 1;
                }
                if (ans < cnt) ans = cnt;
            }
        }
        return ans;
    }
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        int n = sc.nextInt();
        char[][] a = new char[n][n];
        for (int i=0; i<n; i++) {
            a[i] = sc.next().toCharArray();
        }
        int ans = 0;
        for (int i=0; i<n; i++) {
            for (int j=0; j<n; j++) {
                if (j+1 < n) {
                    char t = a[i][j]; a[i][j] = a[i][j+1]; a[i][j+1] = t;
                    int temp = check(a);
                    if (ans < temp) ans = temp;
                    t = a[i][j]; a[i][j] = a[i][j+1]; a[i][j+1] = t;
                }
                if (i+1 < n) {
                    char t = a[i][j]; a[i][j] = a[i+1][j]; a[i+1][j] = t;
                    int temp = check(a);
                    if (ans < temp) ans = temp;
                    t = a[i][j]; a[i][j] = a[i+1][j]; a[i+1][j] = t;
                }
            }
        }
        System.out.println(ans);
    }
}
```

결과	메모리	시간	코드 길이
맞았습니다!!	12020 KB	180 ms	1737 B

C++14

```cpp
#include <iostream>
#include <algorithm>
using namespace std;
int a[1002][1002];
int d[1002][1002][3];
const int inf = 100000000;
int main() {
    int n, m;
    cin >> n >> m;
    for (int i=1; i<=n; i++) {
        for (int j=1; j<=m; j++) {
            cin >> a[i][j];
        }
    }
    fill(&d[0][0][0], &d[1001][1001][2]+1, -inf);
    d[1][1][1] = a[1][1];
    for (int j=2; j<=m; j++) {
        d[1][j][1] = d[1][j-1][1] + a[1][j];
    }
    for (int i=2; i<=n; i++) {
        for (int j=1; j<=m; j++) {
            d[i][j][0] = max({d[i-1][j][0], d[i-1][j][1], d[i-1][j][2]}) + a[i][j];
            d[i][j][1] = max(d[i][j-1][0], d[i][j-1][1]) + a[i][j];
        }
        for (int j=m; j>=1; j--) {
            d[i][j][2] = max(d[i][j+1][0], d[i][j+1][2]) + a[i][j];
        }
    }
    cout << max({d[n][m][0], d[n][m][1], d[n][m][2]}) << '\n';
    return 0;
}

```



결과	메모리	시간	코드 길이
맞았습니다!!	17676 KB	228 ms	901 B

Java

```java
import java.util.*;
public class Main {
    static int[][] a = new int[1002][1002];
    static int[][][] d = new int[1002][1002][3];
    static int inf = 100000000;
    public static void main(String args[]) {
        Scanner sc = new Scanner(System.in);
        int n = sc.nextInt();
        int m = sc.nextInt();
        for (int i=1; i<=n; i++) {
            for (int j=1; j<=m; j++) {
                a[i][j] = sc.nextInt();
            }
        }
        for (int i=0; i<1002; i++) {
            for (int j=0; j<1002; j++) {
                for (int k=0; k<3; k++) {
                    d[i][j][k] = -inf;
                }
            }
        }
        d[1][1][1] = a[1][1];
        for (int j=2; j<=m; j++) {
            d[1][j][1] = d[1][j-1][1] + a[1][j];
        }
        for (int i=2; i<=n; i++) {
            for (int j=1; j<=m; j++) {
                d[i][j][0] = Math.max(d[i-1][j][0], Math.max(d[i-1][j][1], d[i-1][j][2]))
+ a[i][j];
                d[i][j][1] = Math.max(d[i][j-1][0], d[i][j-1][1]) + a[i][j];
            }
            for (int j=m; j>=1; j--) {
                d[i][j][2] = Math.max(d[i][j+1][0], d[i][j+1][2]) + a[i][j];
            }
        }
        System.out.println(Math.max(d[n][m][0],Math.max(d[n][m][1],d[n][m][2])));
    }
}


```

결과	메모리	시간	코드 길이
맞았습니다!!	203496 KB	1516 ms	1313 B

C++14

```cpp
#include <cstdio>
#include <algorithm>
#include <iostream>
using namespace std;
int a[1001][1001];
int d[1001][1001];
int main() {
    int n,m;
    scanf("%d %d",&n,&m);
    for (int i=1; i<=n; i++) {
        for (int j=1; j<=m; j++) {
            scanf("%1d",&a[i][j]);
        }
    }
    int ans = 0;
    for (int i=1; i<=n; i++) {
        for (int j=1; j<=m; j++) {
            if (a[i][j] == 0) {
                continue;
            }
            d[i][j] = min({d[i-1][j-1], d[i-1][j], d[i][j-1]}) + 1;
            if (ans < d[i][j]) {
                ans = d[i][j];
            }
        }
    }
    cout << ans*ans << '\n';
    return 0;
}

```

결과	메모리	시간	코드 길이
맞았습니다!!	9816 KB	84 ms	678 B

Java

```java
import java.util.*;
public class Main {
    public static void main(String args[]) {
        Scanner sc = new Scanner(System.in);
        int n = sc.nextInt();
        int m = sc.nextInt();
        int[][] a = new int[n+1][m+1];
        int[][] d = new int[n+1][m+1];
        for (int i=1; i<=n; i++) {
            String s = sc.next();
            for (int j=1; j<=m; j++) {
                a[i][j] = s.charAt(j-1)-'0';
            }
        }
        int ans = 0;
        for (int i=1; i<=n; i++) {
            for (int j=1; j<=m; j++) {
                if (a[i][j] == 0) {
                    continue;
                }
                d[i][j] = Math.min(Math.min(d[i-1][j-1], d[i-1][j]), d[i][j-1]) + 1;
                if (ans < d[i][j]) {
                    ans = d[i][j];
                }
            }
        }
        System.out.println(ans*ans);
    }
}

```

결과	메모리	시간	코드 길이
맞았습니다!!	28884 KB	412 ms	897 B

끝

코드 플러스

https://code.plus

- 슬라이드에 포함된 소스 코드를 보려면 "정보 수정 > 백준 온라인 저지 연동"을 통해 연동한 다음, "백준 온라인 저지"에 로그인해야 합니다.
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- 문제와 소스 코드는 슬라이드에 첨부된 링크를 통해서 볼 수 있으며, "백준 온라인 저지"에서 서비스됩니다.
- 슬라이드와 동영상 강의는 코드 플러스 사이트를 통해서만 볼 수 있으며, 동영상 강의의 녹화와 다운로드, 배포와 유통은 저작권법에 의해서 금지되어 있습니다.
- 다른 경로로 이 슬라이드나 동영상 강의를 본 경우에는 codeplus@startlink.io 로 이메일 보내주세요.
- 강의 내용, 동영상 강의, 슬라이드, 첨부되어 있는 소스 코드의 저작권은 스타트링크와 최백준에게 있습니다.